



Stonco's ELA luminaires combine low profile style, advanced LED performance and advanced thermal management technology to deliver outdoor area lighting that is as energy efficient and aesthetically pleasing as it is remarkably economical. Versions are available with automatic profile dimming and motion response capability as well.

To Be Discontinued in Q4 2020

Project: _____

Location: _____

Cat.No: _____

Type: _____

Lamps: _____ Qty: _____

Notes: _____

Ordering guide

Example: ELA16-144L-400-NW-G2-AR-2-120-DD-F1-BK

Luminaire	Number of LEDs	Drive Current	LED Color Generation	Mounting	Distr.	Voltage	Dimming Control	Electrical	Finish
ELA16	144L								
ELA16 ELA LED Site & Area Luminaire	144L 144 LEDs	700 700mA 400 400mA 200 200mA	NW-G2 Neutral White 4000K, 70 CRI Generation 2 WW-G2 Warm White 3000K, 70 CRI Generation 2 CW-G2 Cool White 5700K, 70 CRI Generation 2	AR Arm mount ⁶ WS Wall mount surface conduit W Wall mount recessed	2 Type 2 3 Type 3 4 Type 4 5 Type 5	120 120V 208 208V 240 240V 277 277V 347 347V 480 480V UNV 120-277V AC (50/60Hz) HVV 347-480V AC (50/60Hz)	DD 0-10V Dimming Driver Infrared Motion Response Systems IMR13 Integral with #3 lens ^{1,7} PCB Photocontrol Button ^{2,3,4} TLRD5 Twist Lock receptacle 5-pin ^{2,3} TLRPC Twist Lock receptacle w/Photocell ^{2,3,4}	Fusing F1 Single (120, 277, 347VAC) ³ F2 Double (208, 240, 480VAC) ³ F3 Canadian Double Pull (208, 240, 480VAC) ³ Pole Mount Fusing FP1 Single (120, 277, 347VAC) ³ FP2 Double (208, 240, 480VAC) ³ FP3 Canadian Double Pull (208, 240, 480VAC) ³	Textured BK Black WH White BZ Bronze DGY Dark Gray MGY Medium Gray Customer specified RAL Specify optional color or RAL (ex: RAL7024) CC Custom color (customer sup- plied color chip to match is required)

1. Available in 120, 208, 240, 277 or UNV only.
2. Choose either PCB or TLRD Twist Lock Receptacle options.
3. Must specify input voltage.
4. Not available with 480V.
5. Works with 3-pin or 5-pin NEMA photocell/dimming device.
6. Arm designed for a round pole with an adapter included for square poles.
7. Not available with Dimming Driver (DD) option.

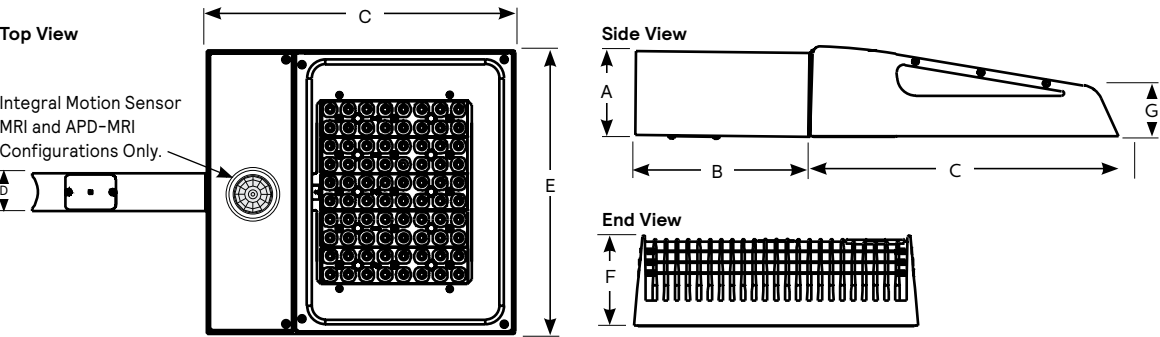
ELA Area luminaire

LED 16" luminaire

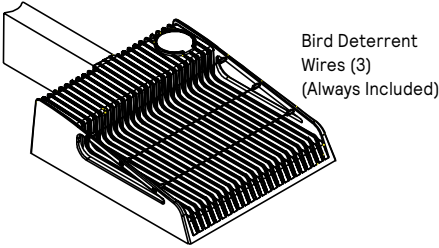
LED Wattage and Lumen Values

Neutral White Ordering Codes	LED Quantity	System Cur- rent (A)	Color Temp (K)	Avg System Watt- age	Type 2			Type 3			Type 4			Type 5		
					Lumen Output	Bug Rating	Effica- cy	Lumen Output	Bug Rating	Effica- cy	Lumen Output	Bug Rating	Effica- cy	Lumen Output	Bug Rating	Effica- cy
ELA-G2-144-200mA- NW	144	200	4000	44	5380	B1-U0-G1	122	4897	B1-U0-G1	111	5125	B1-U0-G1	116	5561	B3-U0-G1	126
ELA-G2-144-400mA- NW	144	400	4000	91	10289	B2-U0-G2	113	9364	B2-U0-G2	102	9801	B2-U0-G2	107	10635	B4-U0-G2	116
ELA-G2-144-700mA- NW	144	700	4000	170	16548	B3-U0-G2	97	15061	B3-U0-G3	89	15764	B3-U0-G3	93	17105	B4-U0-G2	101

Dimensions – Standard Area luminaire



Effective Projected Area (ft²/m²)				Approximate Weight (Single Luminaire)
Model	Single	Twin	3/4	
ELA16"	1.08 / 0.100	1.52 / 0.141	2.67 / 0.248	21 lbs / 9.53 kg



Sizes	ELA16"
A	4.5" 11.43 cm
B	6.28" 15.95 cm
C	16.53" 41.99 cm
D	2" 5.08 cm
E	15.2" 38.61 cm
F	4.6" 11.68 cm
G	1.53" 13.89 cm

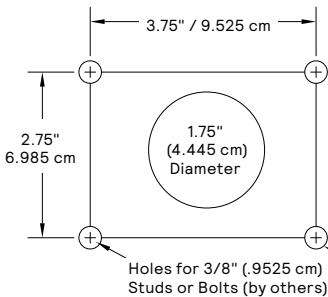
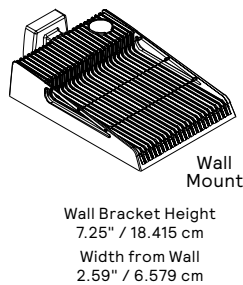
ELA Area luminaire

16" luminaire

Mountings

Wall Mounting Plate may be mounted over (not to) a recessed j-box (by others) and in all cases must be properly supported to structure as indicated. Surface conduit mount requires conduit entry from below. See installation instruction sheets for details.

Note: Wall mounting bracket is secured to wall with 3/8" (.9525 cm) studs or bolts (by others.) Structural members must be present in wall to accept bolts.

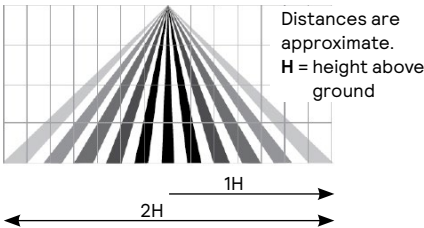


Luminaire Options

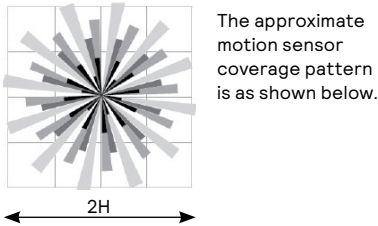
DD: 0-10V dimming driver with leads supplied through back of luminaire (for secondary dimming controls by others).

IMRI3: Infrared Motion Response Integral. IMRI module is mounted integral on driver door and is available with one sensor lens type 3. Motion response for option IMRI is set/operates in the following fashion: The motion sensor is set to a constant 50%. When motion is detected by the PIR sensor, the luminaire returns to full power/light output. Dimming on low is factory set to 50% with 5 minute default in "full power" prior to dimming back to low. When no motion is detected for 5 minutes, the motion response system reduces the wattage by 50%, to 50% of the normal constant wattage reducing the light level. IMRI can also be specified with automatic profile dimming for the added benefit of a combined dimming profile with sensor detection, where the PIR sensor will override the dimming profile when occupancy is detected. Passive infrared (PIR) motion sensor, WattStopper FSP-211, equipped with lens #3. Available in 120V through 277V input only. Motion sensor off state power is 0.0 watts. The FSP-211 can also be reprogrammed with WattStopper's FS1R-100 remote programming tool accessory

Side Coverage Pattern



Top Coverage Pattern



TLRD5: Twist Lock Receptacle with 5 pins enabling dimming, can be used with a twistlock photoelectric cell or a shorting cap. Can also be used with Philips or third party control system. Receptacle located on top of luminaire housing.

TLRDPC: Receptacle with twistlock photoelectric cell (must specify voltage). Receptacle located on top of luminaire housing.

F1: Fusing Single (for 120, 277 or 347VAC)

F2: Fusing Double (for 208, 240 or 480VAC)

F3: Fusing Canadian Double Pull (for 208, 240 or 480VAC)

FP1: Fusing Pole Single (pole mounted near handhole, for 120, 277 or 347VAC)

FP2: Fusing Pole Double (pole mounted near handhole, for 208, 240 or 480VAC).

FP3: Fusing Pole Canadian Double Pull (pole mounted near handhole, for 208, 240 or 480VAC)

ELA Area luminaire

16" luminaire

Specifications

Housing

The housing is one-piece, die cast aluminum and mounts to a pole utilizing an extruded arm designed for a round pole with an adapter included for square poles. Additionally, LED Area luminaires mount easily to a wall or to a mast arm while providing smooth visual transitions.

Electrical

Driver efficiency (>90% standard). 120-480V available (restrictions apply). Open/short circuit protection. Optional 0-10V dimming to 10% power. RoHS compliant. Surge protector standard. 10KA per ANSI/IEEE C62.41.2.

LED Board and Array

144 LEDs. Color temperatures: 3000K, 4000K, 5700K +/- 250K. Minimum CRI of 70. Aluminum metal clad board. RoHS compliant.

LED Thermal Management

The LED Area luminaire design provides die cast aluminum integral thermal radiation fins to provide the excellent thermal management so critical to long LED system life.

Optical Systems

Lensed LED arrays are set to achieve IES Type II, Type III, Type IV and Type V distributions. Individual LED arrays are replaceable. Luminaires include a clear glass lens standard.

Full Cutoff Performance

Full cutoff performance means a luminaire distribution where zero candela intensity occurs at an angle at or above 90° above nadir. Additionally, the candela per 1000 lamp lumens does not numerically exceed 100 (10%) at a vertical angle of 80° above nadir. This applies to all lateral angles around the luminaire.

Listings

All luminaires bear UL or CUL (where applicable) Wet Location labels.

Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Five standard colors offered in textured black, white, bronze, dark gray and medium gray. Consult factory for specs on optional or custom colors.

Warranty

ELA Luminaires feature a 1 year limited warranty. LED luminaires with LED arrays feature a 5 year limited warranty covering the LED arrays and LED drivers.

Predicted Lumen Depreciation Data

Ambient Temperature °C	System Current	LED Current	Calculated L70hrs ^{1,2}	L70 per TM21 ^{2,3}	Lumen Maintenance @ 60,000hrs
25 °C	700 mA	175 mA	>100,000	>60,000	90%

1. Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.
2. L70 is the predicted time when LED performance depreciates to 70% of initial lumen output.
3. Calculated per IESNA TM 21-11. Published L70 hours limited to 6 times actual LED test hours.

The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract.

